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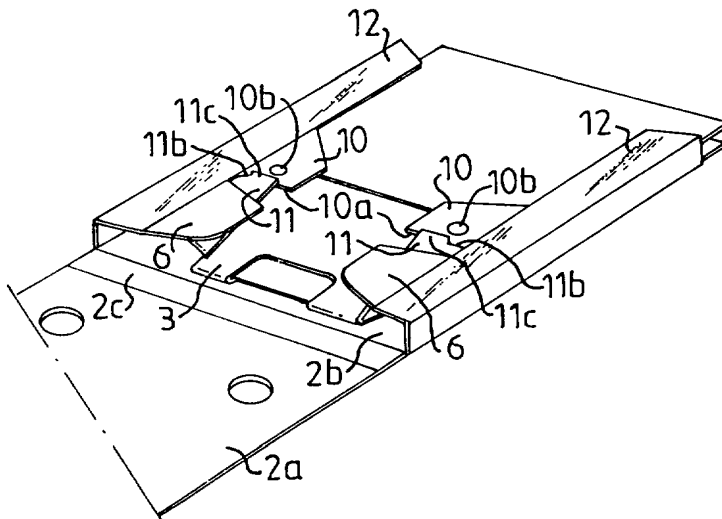
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(54) Title: CHILD RESISTANT PACKAGE WITH SLIDABLE TRAY SECTION



(57) Abstract: The invention relates to a package (1) made of cardboard, comprising a sleeve (2) and an insert (3), the sleeve (2) being provided with at least one catch tab (10) located on the inside of the sleeve and provided with at least one projection (10b), so that the catch tab (10) forms an angle with the upper wall (2a) of the sleeve (2). At least one locking tab (11) is provided on the insert (3), which is arranged so as to be at least in part inserted between the catch tab (10) and the upper wall (2a). At least one operating tab (6) is provided, in addition to which the sleeve (2) is provided with at least one cutout (7) next to the operating tab (6), the operating tab (6) being arranged so as to be pressed by a user against the locking tab (11), movement of the insert (3) in the sliding direction (S) towards the opening (4) being made possible.



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## AN ARRANGEMENT FOR A PACKAGE

## TECHNICAL FIELD

5 The present invention relates to a package according to the precharacterizing clause of Patent Claim 1.

## BACKGROUND OF THE INVENTION

10 In packages for products, the contents of which may be dangerous for small children, it is desirable that the packages are designed so that the risk of small children opening them, in the event that they fall into their hands, is reduced.

15

EP 0 031 547 A1 describes a package, for example for pharmaceutical preparations, with a storage part and a lid which is displaceable on the storage part. Tabs form catches which prevent a relative movement between the storage part and the lid. The tabs can be folded  
20 aside, after which the lid can be pushed aside on the storage part. A disadvantage of the package in EP 0 031 547 A1 is that it does not afford adequate protection against small children gaining access to the contents. One reason for this is that the tabs are visible, which  
25 makes unlocking easier. Moreover, the package can be opened easily after the tabs have been folded aside, if they are not subsequently actively folded back into the locking position again.

30

EP 1 002 744 A1 describes a cardboard package with a locking system for children, with an outer casing and an inner sliding part. The sliding part is prevented from being drawn out of the casing if a locking system  
35 has not been inactivated by pressing on a release button. The locking system functions by virtue of a tab on the sliding part coming into contact with a shoulder on the inside of the casing. The shoulder is formed by virtue of an inner cardboard ply, glued to an outer

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ply, being provided with a cutout. A disadvantage of this construction is that, for the locking system to function, it relies on the shoulder having sufficient height by virtue of the thickness of the inner  
5 cardboard ply. The locking function is thus made dependent on the selection of a sufficiently thick material for the casing. A material which is too thin can result in the locking security being put at risk. Moreover, it is likely that the construction will lead  
10 to the shoulder being worn down on repeated use, and that its function is impaired after a number of openings of the package.

One object of the present invention is to produce a  
15 package, for example for pharmaceutical preparations, in which the contents are better protected against children gaining access than in packages according to the known art.

20 Another object of the present invention is to produce a package, for example for pharmaceutical preparations, which has protection against children gaining access which is as good after repeated openings and closings as on the first opening.

25 A further object of the present invention is to produce a package, for example for pharmaceutical preparations, which is easier, and therefore less expensive, to manufacture than such packages according to the known  
30 art.

#### BRIEF DESCRIPTION

The objects mentioned above are achieved according to  
35 the invention by a package with the characterizing features in Patent Claim 1.

As a projection on the catch tab brings about an angle between the latter and the sleeve wall, and a locking

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tab interacting with the catch tab is at least in part arranged so as to be inserted between the catch tab and the upper wall, secure locking is ensured even if a thin cardboard material is used. Moreover, locking  
5 which can withstand wear on repeated use is brought about.

The package preferably comprises two catch tabs, two locking tabs, two operating tabs and two cutouts, the  
10 result of which is that the insert cannot be drawn out of the sleeve without the locks being inactivated by simultaneous pressing with two fingers. The advantage of this is that it is made more difficult for children to open the package.

15 Preferably, the sleeve comprises, at two glued tabs, two respective glued joints, and the insert has no glued joints, which means that the package is easy to manufacture.

20

## DESCRIPTION OF THE FIGURES

The invention will now be described in greater detail with reference to the drawings, in which

- 25 - Fig. 1 shows a perspective view of a package according to an embodiment of the invention,  
- Fig. 2 shows a perspective view of a partly finished part of the package in Fig. 1,  
- Fig. 3 shows a plan view of a manufacturing blank  
30 for the part in Fig. 2,  
- Fig. 4 shows a perspective view of a partly finished part of the package in Fig. 1,  
- Fig. 5 shows a plan view of a manufacturing blank for the part in Fig. 4,  
35 - Fig. 6 shows a perspective view of the package in Fig. 1, in a partly opened state for the sake of comprehension,  
- Fig. 7 shows a plan view of a part of the package in Fig. 1, according to an embodiment of the

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invention,

- Fig. 8 shows a side view of the part in Fig. 7,
- Fig. 9 shows a perspective view of the part in Fig. 4 and the part in Fig. 7,
- 5 - Fig. 10 shows a perspective view of a package according to a further embodiment of the invention,
- Fig. 11 shows a plan view of a manufacturing blank for a part of the package in Fig. 10,
- 10 - Fig. 12 shows a perspective view of parts of the package in Fig. 10,
- Fig. 13 shows a partly sectioned view of a part of the package in Fig. 10,
- Figs 14 and 15 show a plan view and, respectively,  
15 a side view of a part for the package in Fig. 10, and Figs 16-18 show perspective views of parts for a package according to yet another embodiment of the invention.

## 20 DETAILED DESCRIPTION

Fig. 1 shows a package 1 for products, for example pharmaceutical preparations in tablet form, consisting of an outer sleeve 2 which surrounds an insert 3 for  
25 the tablets. The sleeve 2 and the insert 3 are formed by folding over and, if appropriate, gluing sheets of cardboard. The sleeve 2 comprises an upper wall 2a, a lower wall 2b, side walls and a rear wall 2c.

30 The insert 3 can be inserted and withdrawn through an opening 4 (concealed in Fig. 1) in the sleeve 2. The sliding direction of the insert 3 is indicated by the double arrow S in Fig. 1. Fig. 1 shows the package 1 with the insert 3 in its inserted position, only a part  
35 of it being visible at an indentation 5, at which the insert 3 can be taken hold of for drawing out. Two locks, described in greater detail below, mean that the insert 3 cannot be drawn out of the sleeve 2 without the locks being inactivated by simultaneous pressing

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with two fingers, one on each of two operating tabs 6, each inside one of two cutouts 7 in the sleeve 2. Alternatively, the package 1 can be provided with only one lock, operated with one finger on one operating tab 6 through one cutout 7. The advantage of the arrangement which calls for two simultaneous pressing actions is that it affords improved security against children gaining access to the contents. The cutouts 7 can be provided with covers which are produced together with the cutouts 7, for example by perforation or cutting the upper wall 2a.

Fig. 2 shows the sleeve partly folded. The sleeve is formed by folding and gluing a sleeve blank 2', shown in Fig. 3. The sleeve 2 in Fig. 2 is completed by the upper wall 2a being folded in over the rest of the sleeve blank, illustrated by the arrow P. The upper wall 2a is applied against two glued tabs 12 and is secured against these by glue.

The sleeve 2 is provided with two catch tabs 10, which are located on the inside of the sleeve in the folded-together state of the sleeve 2, at the upper wall 2a. Each catch tab 10 extends essentially transversely to the sliding direction S between an end at which it is connected to the sleeve 2 and a free end. Each catch tab 10 has a contact edge 10a, facing the rear wall 2c, and is provided with a projection 10b, shaped like a boss 10b, which extends essentially at right angles to the plane of the catch tab, and, in the folded-together state of the sleeve, towards the upper wall 2a. Alternatively, more than one projection 10b can be provided on each catch tab 10, or the projection(s) 10b can be designed as ridges, or with another suitable shape. The projections 10b can be formed by, for example, stamping the cardboard material. The boss 10b bears against the upper wall 2a so that, in the folded-together state of the sleeve, the catch tab 10 forms an angle with the upper wall 2a.

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As an alternative, it is possible for the catch tab, or each catch tab 10, to extend in the sliding direction S between an end at which it is connected to the sleeve 2 and a free end.

As can be seen from Figs 2 and 3, the sleeve 2 includes only two glued joints, which means the sleeve is easy to manufacture.

10

Fig. 4 shows the insert 3 partly folded. This is formed from an insert blank 3', shown in Fig. 5. For interaction with the catch tabs 10, two locking tabs 11 are provided, which, as shown in Fig. 4, are formed by folding a part of the insert blank 3'. Each locking tab 11 has a free edge 11a with a notch 11b. An engagement tab 11c is located on one side of the notch 11b.

Fig. 6 shows the insert 3 positioned in the sleeve 2, in a position of engagement between the locking tabs 11 and the catch tabs 10. For the sake of comprehension, the sleeve is shown open, with the upper wall 2a unfolded. However, as described above with reference to Fig. 2, the upper wall 2a serves a function in that, when attached to the glued tabs 12, it causes the catch tabs 10 to adopt a slightly downwardly angled position in relation to the upper wall 2a, by virtue of the bosses 10b bearing against the upper wall 2a. In the inserted position of the insert 3, and in a locking position of the locking tab 11, the free edge 11a is, in relation to an area where the locking tab 11 is connected to the insert 3, located closer to the opening 4 of the sleeve 2, and closer to the upper wall 2a. Each locking tab 11 prevents movement of the insert 3 out of the sleeve 2 by means of engagement with the respective catch tab 10. The engagement takes place by virtue of the engagement tab 11c being inserted between the catch tab 10 and the upper wall 2a, the notch 11b coming into contact with the contact edge 10a. The

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unimpeded insertion of the engagement tab 11c is ensured by a spacing between the catch tab 10 and the upper wall 2a brought about by the boss 10b.

- 5 As an alternative, it is possible for the locking tab 11 to have no notch 11b or engagement tab 11c, the entire locking tab 11, or a part of this closest to the free edge 11a, being intended to be inserted between the catch tab 10 and the upper wall 2a to lock the  
10 insert 3 in the sleeve 2.

As can be seen from Fig. 4, each locking tab is folded up towards the top side of the insert 3, so that the free edge 11a faces the other parts of the insert. Fold  
15 indications 11d are preferably provided for the locking tabs 11 in the insert blank 3' shown in Fig. 5. Each fold indication 11d preferably forms an angle  $\alpha$ , suitably around  $18^\circ$ , with the transverse direction of the insert blank. This means that, in the assembled  
20 state of the package, the free edge 11a forms an angle with the contact edge 10a on the catch tab 10. This ensures that the notch 11b on the locking tab 11 comes into contact with the contact edge 10a, because that side of the free edge 11a which is opposite the  
25 engagement tab 11c, and is located outside the notch, moves slightly in front of the notch 11b and is then guided under the catch tab 10 while the engagement tab is guided over the catch tab 10.

- 30 As can be seen from Figs 4 and 5, the insert 3 has no glued joints, which means that it is easy to manufacture.

Fig. 2 indicates that, in the folded-together state of  
35 the sleeve, the operating tabs 6 are located on the inside of the sleeve 2, at the upper wall 2a, between the catch tab 10 and the rear wall 2c. In the inserted state of the insert 3, each operating tab 6 is located between the upper wall 2a and the respective locking



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tab 11, the operating tab 6 extending essentially parallel to the upper wall 2a. The cutouts 7 provided on the sleeve 2 are, in the folded-together state of the sleeve, located next to the respective operating  
5 tabs 6, each operating tab 6 being arranged so as to be pressed with a finger through the respective cutout 7 against the respective locking tab 11, the latter adopting a clearance position. In this clearance position, the locking tab 11, seen in the sliding  
10 direction S of the insert 3, is located outside the area of extension of the catch tab 10 seen in the sliding direction S of the insert 3, which makes it possible to draw the insert 3 out of the sleeve 2 in the sliding direction S.

15

On pressing down, the locking tab 11 is resilient so that, when the pressure is removed, it tends to return to the locking position.

20 Figs 2 and 3 show a sleeve tab 14 on the sleeve 2, intended to be folded over towards the inside of the lower wall 2b and to appear at the opening 4 of the finished sleeve 2. Figs 4 and 5 show a stop tab 15 on the insert 3, which is intended to be folded over  
25 towards the underside of the insert 3. The sleeve tab 14 and the stop tab 15 are intended to prevent the insert 3 being drawn completely out of the sleeve 2 by virtue of the stop tab 15 moving in between the sleeve tab 14 and the lower wall 2b and in this way coming  
30 into engagement with the sleeve tab.

Fig. 5 shows that the insert preferably comprises an inner tab 16 with openings 17 for interaction with a blister pack 18, shown in Figs 7 and 8. According to  
35 the known art, the blister pack 18 comprises bubbles 19 made of a thin plastic material which is attached to a foil, the bubbles 19 being used for storing, for example, pharmaceutical preparation units 20 in the form of tablets or capsules.

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The blister pack 18 preferably comprises two fixing tabs 21 for interaction with the locking tabs 11 in the manner shown in Fig. 9. The fixing tabs can be produced by punching the blister pack 18. The blister pack 18 is intended to be positioned in the insert 3 with the bubbles 19 facing upwards, the fixing tabs 21 being guided into engagement with the locking tabs 11, so that the blister pack 18 is fixed in relation to the insert 3. As described above, the fold indications 11d in the insert blank 3' shown in Fig. 5 form an angle  $\alpha$  with the transverse direction of the insert blank. This simplifies assembly of the package. In this connection, the blister pack 18 is positioned on the insert blank 3', with the fixing tabs 21 next to the locking tabs 11. The locking tabs 11 are then folded up, the angle  $\alpha$  causing the fixing tabs 21 to be folded up slightly by the locking tabs 11, subsequently to slide off these and return to their original position. This arrangement means that the blister pack 18 can be arranged with ease in the insert 3 by means of mechanical equipment.

Reference is now made to Figs 4 and 5. The insert comprises a bottom 22 and an upper tab 23. When the insert 3 is inserted into the sleeve 2, the inner tab 16 is folded over the bottom 22, and the upper tab 23 is folded over the inner tab 16. When the insert is drawn out so that the stop tab 15 is in engagement with the sleeve tab 14, the upper tab 23 can be folded up so that the bubbles 19 are exposed, see Fig. 9. The fold indication marked by a broken line 24 in Fig. 5 on the bottom 22 of the insert means that, in the drawn-out state of the insert, a part of the bottom 22 and the upper tab 23 can be folded down so that a pharmaceutical product unit 20 can be pressed out downwards through one of the openings 17 in the inner tab 16, the insert 3 being retained in the sleeve by the sleeve tab 14 and the stop tab 15.

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The orientation of the locking tabs 11 means that, during reinsertion of the insert 3 into the sleeve 2, they can, on contact with the catch tabs 10, be inclined further towards the lower wall 2b so as to facilitate movement past the catch tabs 10.

Fig. 4 shows that the insert has a space between the inner tab 16 and the bottom 22, in which printed matter can be kept. This can be mechanically packed with ease.

As an alternative to cardboard, other suitable materials can be used for the package, for example plastic.

In an alternative embodiment, the package can be made without operating tabs 6, each of the locking tabs being accessible through a respective opening in the sleeve and being bringable into its respective locking position by being touched directly by a user. In this way, the construction of the package is simplified, which makes its manufacture simpler and less expensive.

Fig. 10 shows a package 1 according to a further alternative embodiment of the invention. In a similar manner to the package described above, this comprises a sleeve 2 and an insert 3 which is arranged so as to interact with a blister pack 18 described in greater detail below.

The sleeve in Fig. 10 can be of the same type as the sleeve forming part of the embodiment described above with reference to Figs 1-6. The sleeve and the blank for this are shown in Figs 2 and 3.

Fig. 11 shows a manufacturing blank 3' for the insert in Fig. 10. For interaction with the catch tabs 10 on the sleeve, two locking tabs 11 are provided, which are formed by folding a part of the insert blank 3'. The arrow I shows the insertion direction when the insert

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in its folded state is inserted into the sleeve.

An area 25 in which the locking tabs are arranged is intended to be folded around an indication 26 towards the other parts of the insert. Fold indications 11d are provided in the insert blank 3' for the locking tabs 11. Each fold indication 11d is essentially parallel to the insertion direction I of the insert.

As can be seen in Fig. 12, the locking tabs 11 are intended to be folded around the fold indications 11d. A contact edge 11e on each of the locking tabs is intended to come into contact with a contact edge 10a on the respective catch tab 10 on the sleeve 2 (see Fig. 2). Fig. 13 shows diagrammatically how this happens. When the locking tab is in its locking position and an attempt is made to draw the insert 3 out of the sleeve 2, drawing-out is prevented, in a direction indicated by the arrow U, by virtue of the contact edge 11e of the locking tab 11 coming into contact with the contact edge 10a of the catch tab.

The folding of the locking tabs 11 parallel to the withdrawal direction U means that forces which arise when attempts are made to draw out the insert in the locking positions of the locking tabs are mainly transmitted in the plane of the locking tabs, which means that they have great strength and that the risk of the package being opened by force, for example by a child, is reduced.

In an alternative embodiment, the locking tabs are folded up directly from the other parts of the insert without a separate area 25 (Fig. 11) on which the locking tabs are located being folded in relation to the other parts of the insert.

As in the embodiment shown previously with reference to Figs 1-6, the sleeve in connection with the embodiment

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shown in Figs 10-13 can also be provided with operating tabs 6 (see Fig. 2), each operating tab 6 being located, in the inserted state of the insert 3, between the upper wall 2a and the respective locking tab 11, the operating tab 6 extending essentially parallel to the upper wall 2a. The cutouts 7 provided on the sleeve 2 are, in the folded-together state of the sleeve, located next to the respective operating tabs 6, each operating tab 6 being arranged so as to be pressed with a finger through the respective cutout 7 against the respective locking tab 11, the latter adopting a clearance position. In this clearance position, the locking tab 11, seen in the sliding direction S of the insert 3, is located outside the area of extension of the catch tab 10 seen in the sliding direction S of the insert 3, which makes it possible to draw the insert 3 out of the sleeve 2 in the sliding direction S.

On pressing down, the locking tab 11 is resilient so that, when the pressure is removed, it tends to return to the locking position.

Figs 14 and 15 show an alternative embodiment of a blister pack 18, in which bubbles 19, each for containing a product, for example a pharmaceutical preparation tablet, are arranged so that the blister pack 18 can be folded together (Fig. 15), the bubbles being positioned between one another and being adapted so as, by means of mutual contact, to keep the blister pack 18 folded together by friction, which facilitates feeding of the same into the package by means of what is known as a suction cup arrangement in an automatic assembly machine.

The blister pack 18 preferably comprises two fixing tabs 21 for interaction with the locking tabs 11 in the manner shown in Fig. 12. To this end, the insert 3 is, as shown in Fig. 11, provided with cutouts 27 in the locking tabs.

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Figs 16-18 show a further embodiment of the package according to the invention. A product-carrying unit 18 (shown in broken lines in Fig. 16), such as a blister pack, is mounted on the insert 3 by gluing, taping, stapling or in another way. As shown in Fig. 17, an information-carrying unit 28 is located on top of the blister pack 18. The information-carrying unit, which may be a cardboard sheet with text, an information folder or a leaflet, is arranged so as to be located between two locking tabs 11 which are arranged in the same manner as in the example described above with reference to Figs 10-13. The information-carrying unit 28 is provided with lugs 29 (see Fig. 18) which are arranged so as to interact with the locking tabs 11 or cutouts 27 in these in order to prevent complete drawing-out of the information-carrying unit from the package. This is an advantage if the package contains a product with which information is to be supplied, and a better possibility is to be afforded that the information remains together with the product after the first opening of the product as well. A loose information sheet or the like can easily be removed from the package, in which case the information is not available for future use, which may be inappropriate, especially if a long time elapses between instances of use or there are different users.

As can be seen in Fig. 18, the information-carrying unit 28 is arranged so as, in the drawn-out position of the insert 3, to be pushed into the sleeve of the package in order to expose the blister pack 18. Such an arrangement means that the information-carrying unit 28 is shown to the user when the latter wishes to reach the product, after which it can be pushed into the sleeve in order to facilitate access to the product. The folding of the locking tabs 11 in the insertion direction of the insert 3 facilitates this. Alternatively, the blister pack 18 can be arranged so

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as to move in relation to the insert 3 in the same manner.

In a special embodiment, the cutouts 7 (see Fig. 1) in the sleeve are arranged at a distance from one another so that simultaneous pressing down of both locking tabs 11 is possible only for people who can move two fingers on the same hand sufficiently far apart from one another in order to reach both the cutouts 7 simultaneously. As the hands of children are usually smaller than the hands of adults, this means that the access of children to the product in the package is restricted in the event that they have understood the function of simultaneous pressing-down in the cutouts 7. However, the necessity of simultaneous operations being performed in two places on the package in order for the latter to be opened constitutes a considerable increase in the difficulty for small children of reaching the contents of the package. It is nevertheless possible that the package be provided with only one locking tab and one catch tab so that a coordinated operation is not required in order to draw the insert out.

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## PATENT CLAIMS

1. Package (1), for example made of cardboard, comprising a sleeve (2) of essentially parallelepipedal shape, the sleeve (2) comprising an upper wall (2a), a lower wall (2b), side walls and a rear wall (2c), and also an insert (3) formed from an insert blank (3'), which insert can be inserted into and withdrawn from the sleeve (2), in a sliding direction (S), through an opening (4) in the sleeve (2), characterized in that

- the sleeve (2) is provided with at least one catch tab (10) located on the inside of the sleeve, at the upper wall (2a), in addition to which the catch tab (10) is provided with at least one projection (10b) which extends essentially at right angles to the plane of the catch tab and towards the upper wall (2a), at least one of the projections (10b) bearing against the upper wall (2a) so that the catch tab (10) forms an angle with the upper wall (2a),

- for each of the catch tabs (10) a locking tab (11) is provided, which is formed by folding a part of the insert blank (3') and has a free edge (11a), the free edge (11a) being, in relation to an area where the locking tab (11) is connected to the insert 3, in the inserted position of the insert (3), and in a locking position of the locking tab (11), located closer to the upper wall (2a), in addition to which the locking tab (11) is arranged so as to prevent movement of the insert (3) out of the sleeve (2) by means of engagement with the catch tab (10),

- in addition to which the locking tab (11) is arranged so as to adopt a clearance position, in which it, projected in the sliding direction (S) of the insert (3), is located outside the area of



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extension of the catch tab (10) projected in the sliding direction (S) of the insert (3), movement of the insert (3) in the sliding direction (S) towards the opening (4) being made possible,

5

- in addition to which the locking tab (11) is, by spring action, subjected to a force directed towards the locking position.

10 2. Package according to Claim 1, characterized in that the free edge (11a) is, in relation to an area where the locking tab (11) is connected to the insert (3), in the inserted position of the insert (3), and in a locking position of the locking tab (11), located  
15 closer to the opening (4) of the sleeve (2).

3. Package according to either of the preceding claims, characterized in that for each of the locking tabs (11) an operating tab (6) is provided, located on  
20 the inside of the sleeve, at the upper wall (2a), between the catch tab (10) and the rear wall (2c), and, in the inserted state of the insert, between the upper wall (2a) and the locking tab (11), the operating tab (6) extending essentially parallel to the upper wall  
25 (2a) between an end at which it is connected to the sleeve (2) and a free end, in addition to which the sleeve (2) is, for each of the operating tabs (6), for access of a user to the respective operating tab (6), provided with a cutout (7) in the upper wall (2a), next  
30 to the operating tab (6), the operating tab (6) being arranged so as to be pressed against the locking tab (11).

4. Package according to any one of the preceding  
35 claims, the locking tab (11) or a part thereof being arranged so as to be inserted between the catch tab (10) and the upper wall (2a).

5. Package according to any one of the preceding

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claims, the catch tab (10) extending essentially transversely to the sliding direction (S) between an end at which it is connected to the sleeve (2) and a free end.

5

6. Package according to any one of the preceding claims, the catch tab (10) having a contact edge (10a) facing the rear wall (2c), in addition to which the locking tab (11) has, on the free edge (11a), a notch  
10 (11b) and an engagement tab (11c), located on one side of the notch (11b), the engagement tab (11c) being arranged so as to be inserted between the catch tab and the upper wall (2a), in addition to which the notch (11b) is arranged so as to come into contact with the  
15 contact edge (10a).

7. Package according to any one of the preceding claims, a fold indication (11d) for each locking tab (11) being provided in the insert blank (3'), the fold  
20 indication (11d) forming an angle ( $\alpha$ ) with the transverse direction of the insert blank (3').

8. Package according to any one of the preceding claims, comprising two catch tabs (10), two locking  
25 tabs (11), two operating tabs (6) and two cutouts (7).

9. Package according to any one of the preceding claims, comprising a blister pack (18) provided with two fixing tabs (21) in engagement with the locking  
30 tabs (11), so that the blister pack (18) is fixed in relation to the insert (3).

10. Package according to any one of the preceding claims, the insert (3) having a space for keeping  
35 printed matter arranged between an inner tab (16) and a bottom (22).

11. Package according to any one of the preceding claims, the sleeve (2) comprising, at two glued tabs

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(12), two respective glued joints, and the insert (3) having no glued joints.

12. Package according to any one of the preceding  
5 claims, the insert (3) being provided with a stop tab  
(15) arranged so as to prevent the insert (3) being  
drawn completely out of the sleeve (2) by virtue of the  
stop tab (15), when the insert (3) is drawn out, coming  
into engagement with a sleeve tab (14) located on the  
10 sleeve.

13. Package according to any one of the preceding  
claims, the locking tab being arranged folded  
essentially parallel to the sliding direction (S) of  
15 the insert in the sleeve, and the engagement of the  
locking tab (11) with the catch tab (10) meaning that  
a contact edge (11e) on the locking tab comes into  
contact with a contact edge (10a) on the catch tab  
(10) in order to prevent movement of the insert out  
20 of the sleeve (2).

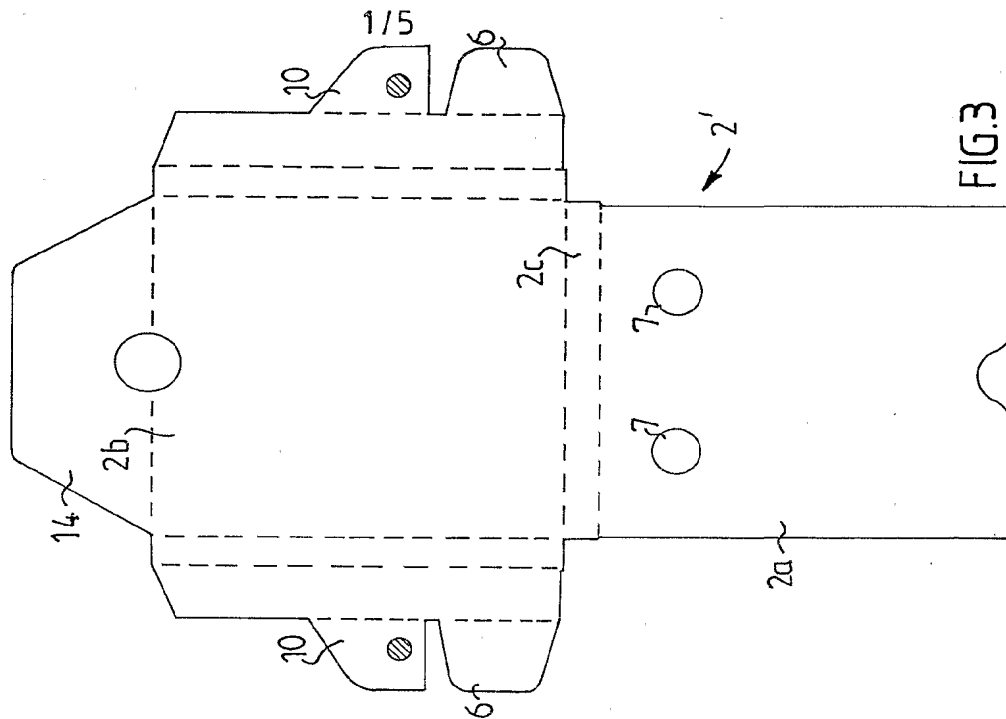


FIG.3

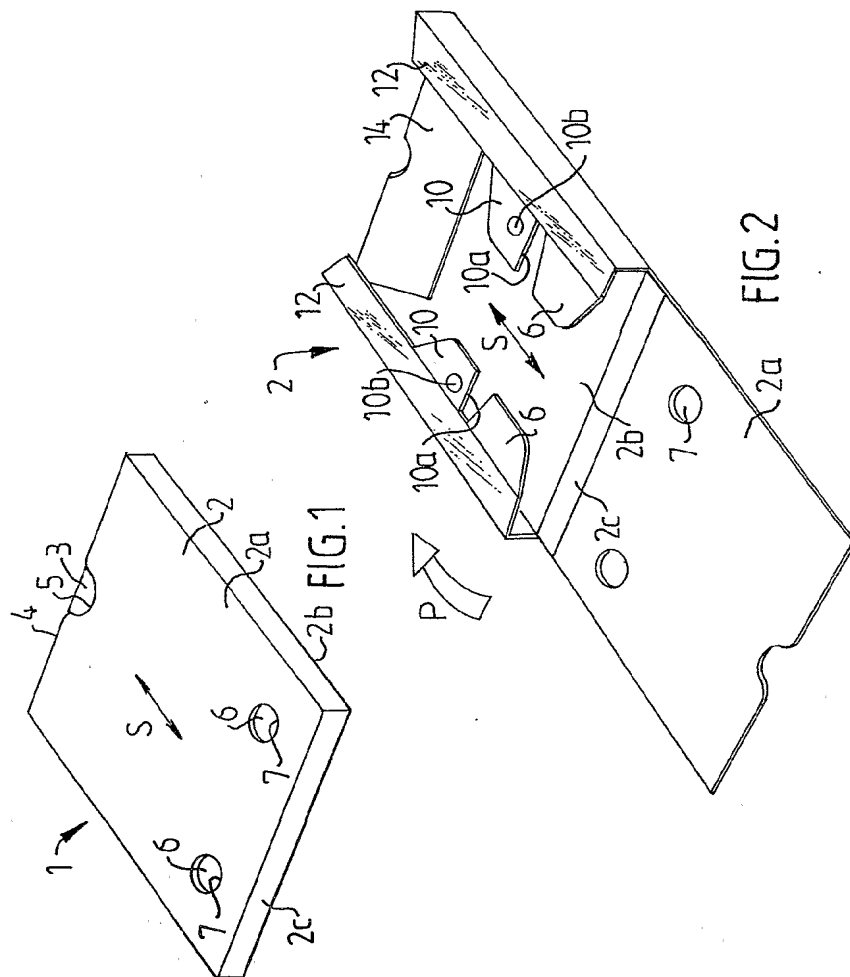


FIG.2

FIG.1

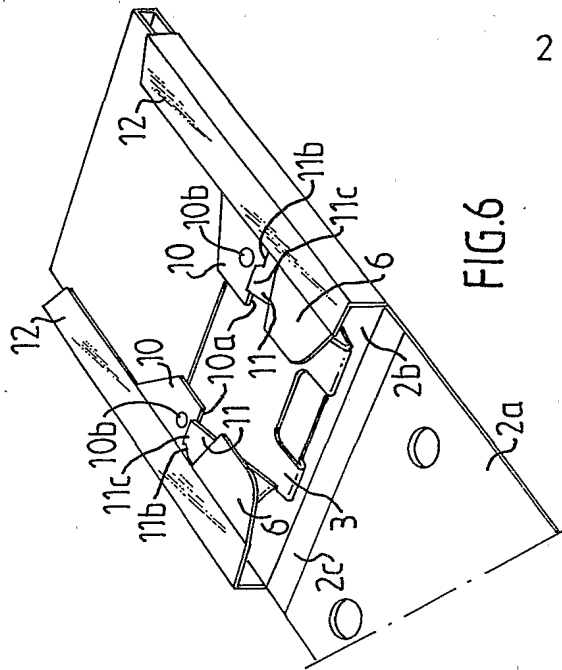


FIG. 6

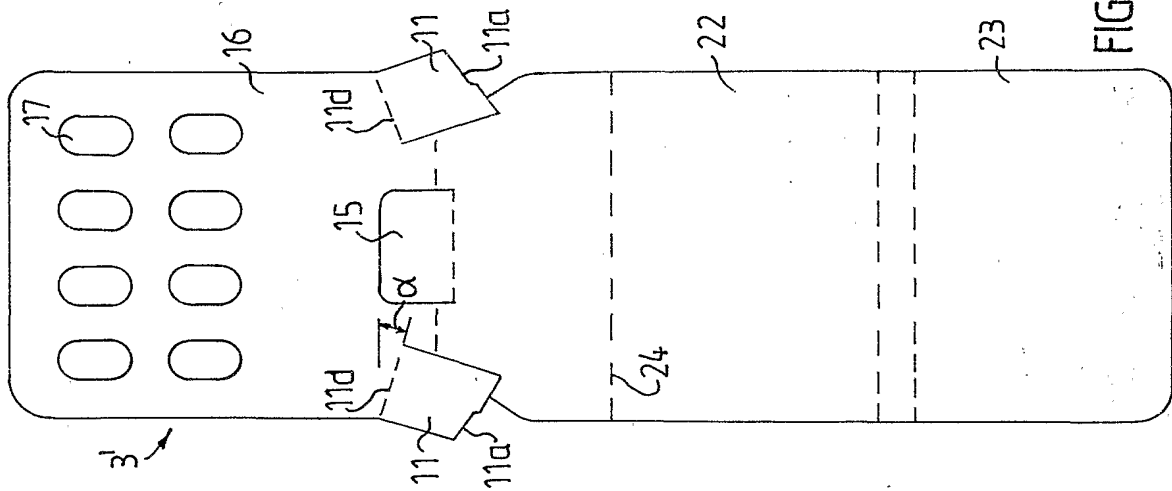


FIG. 5

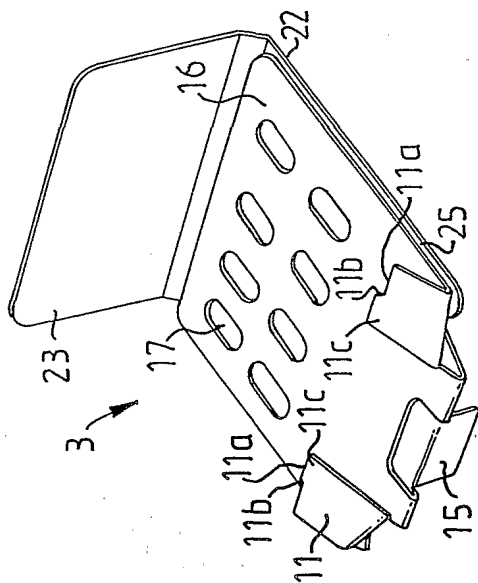


FIG. 4

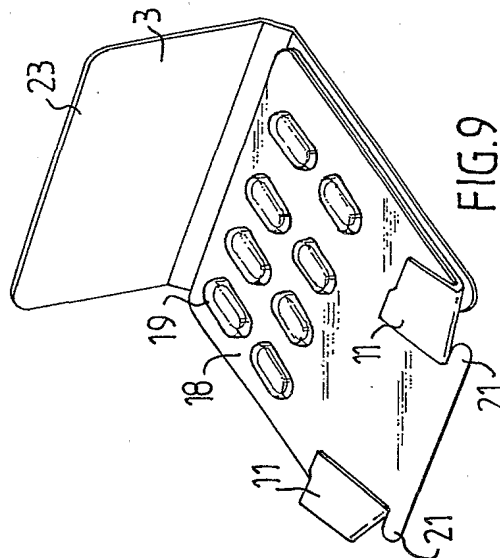


FIG. 9

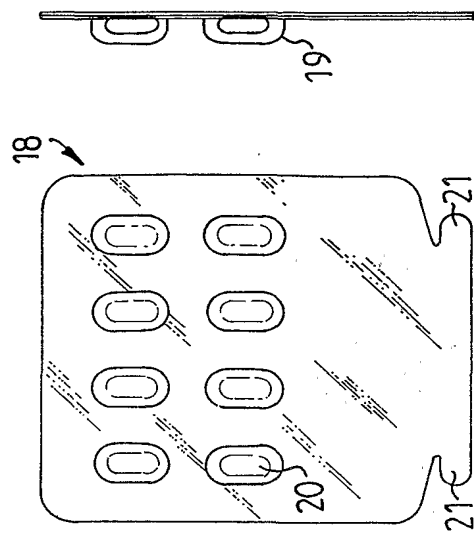


FIG. 7



FIG. 8

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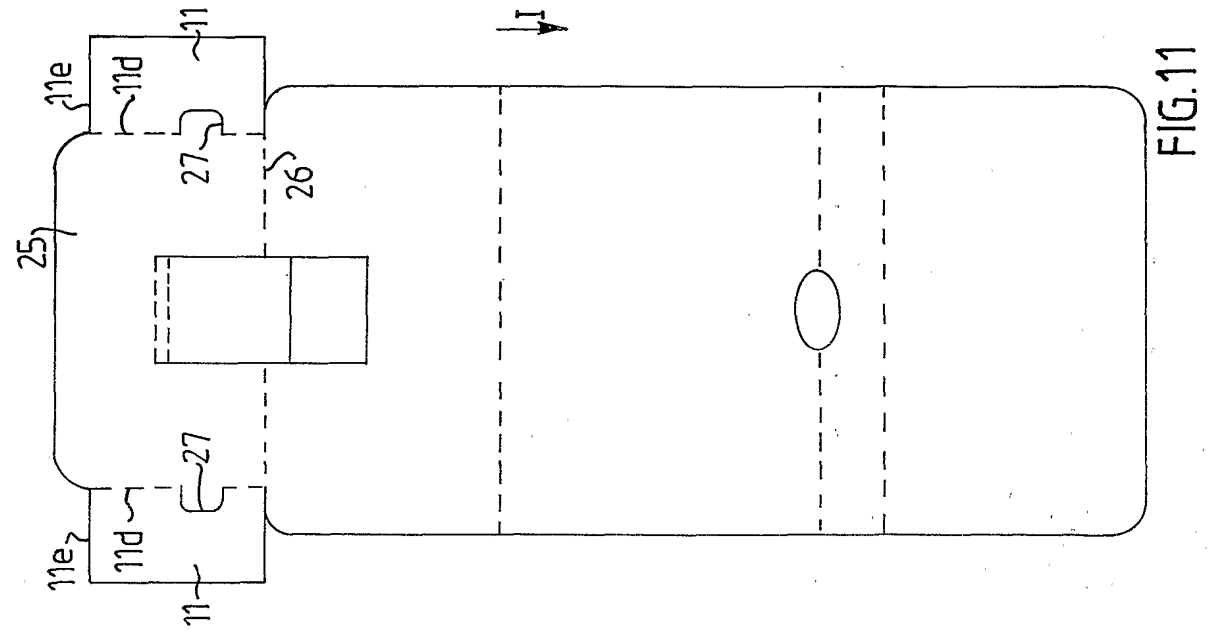


FIG. 11

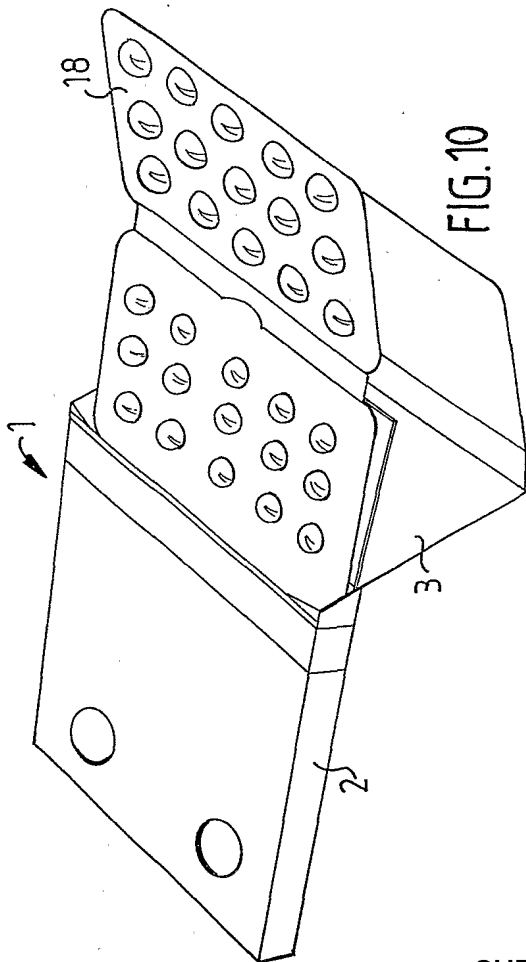


FIG. 10

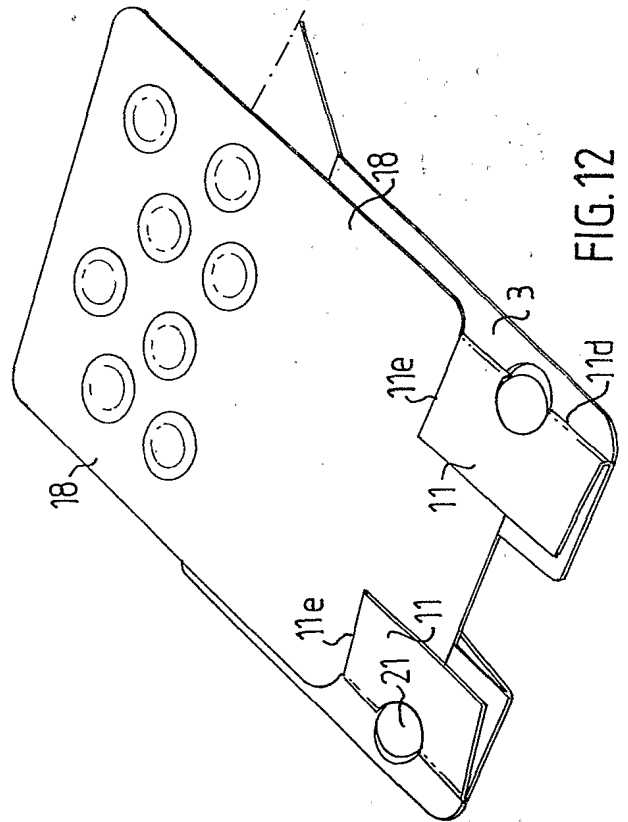
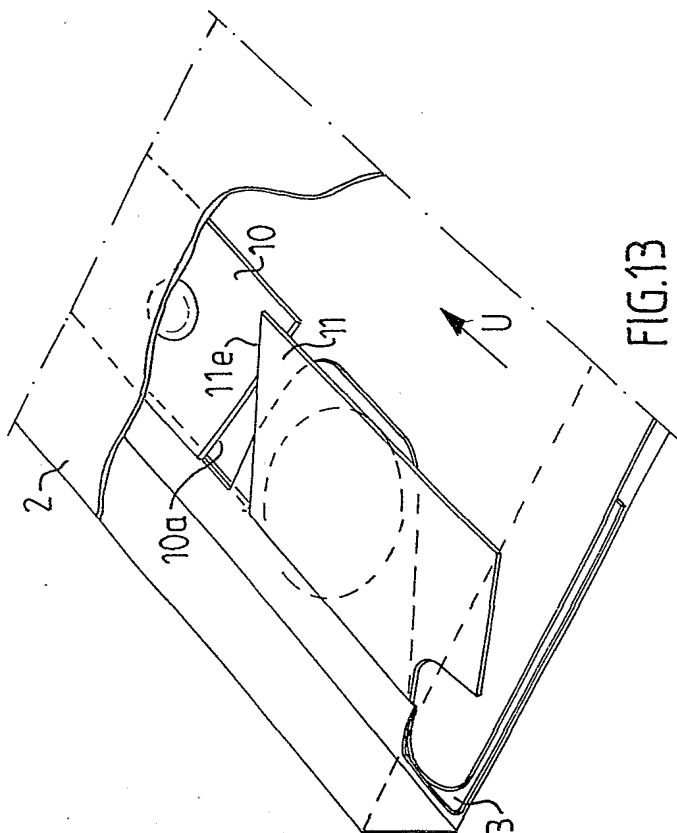
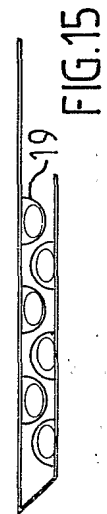
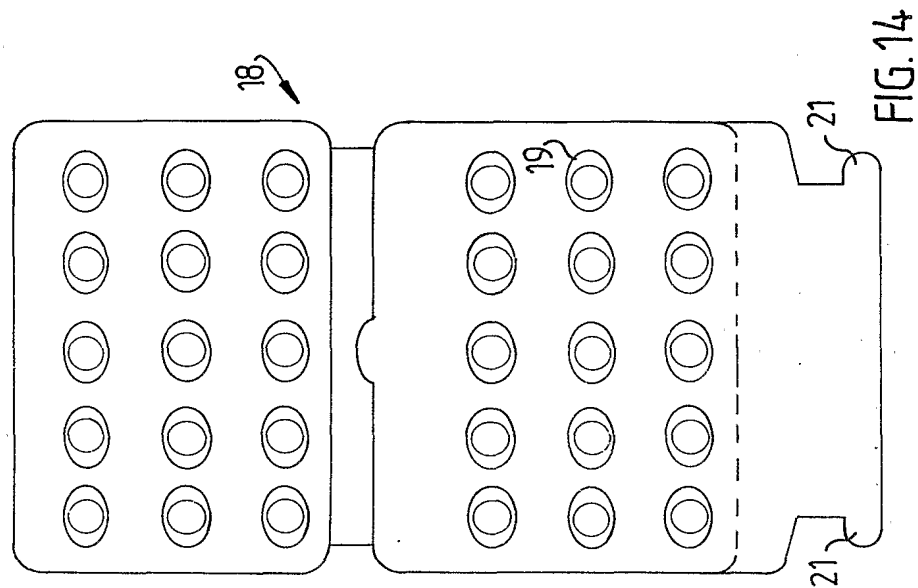
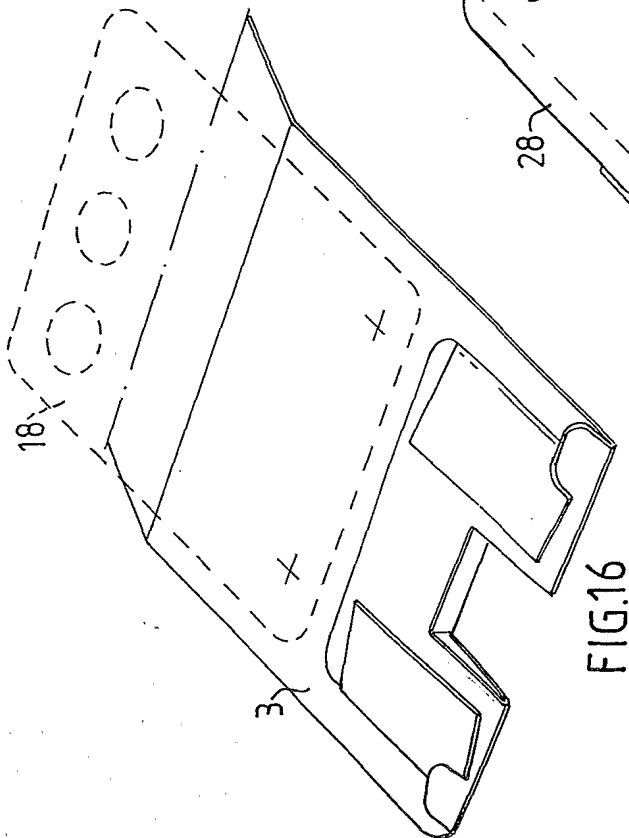
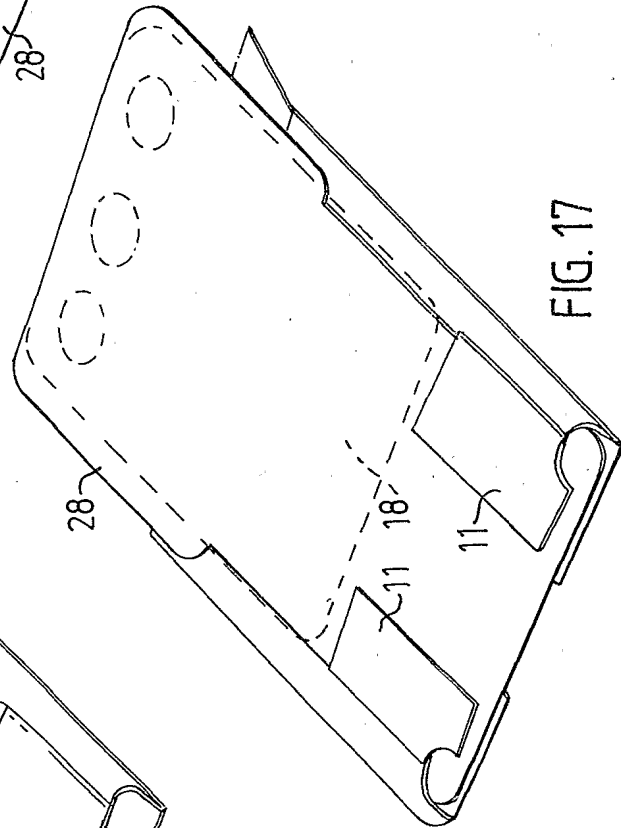
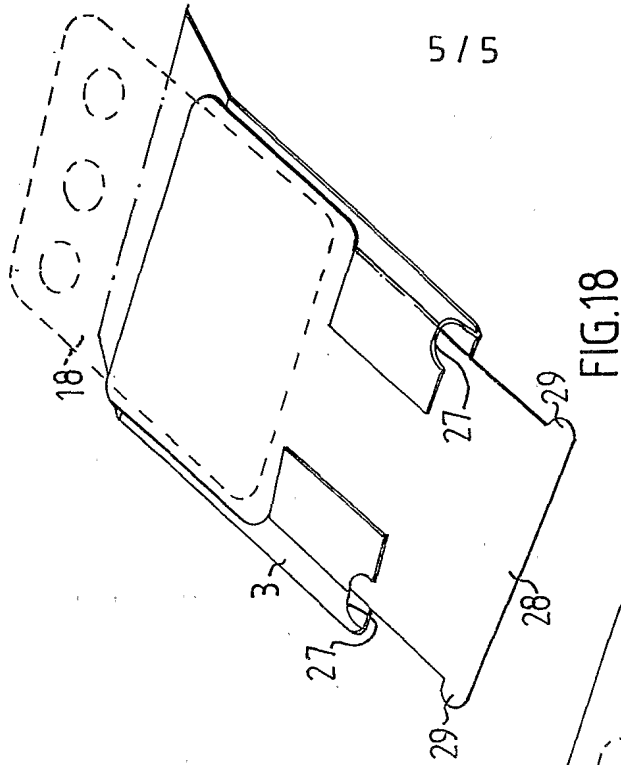


FIG. 12

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 01/02496

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B65D 5/38, B65D 75/38, B65D 83/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B65D, A61J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SE 509466 C2 (ACTIVATION SWEDEN AB), 13 October 1997 (13.10.97), figures 1-7, abstract --	1-13
A	FR 2649672 A1 (CARTONNAGES GAGNIER S.A.), 18 January 1991 (18.01.91), figures 1-5 --	1-13
A	EP 0031547 A1 (ARTUSL,ALDO), 8 July 1981 (08.07.81), figures 1-6 --	1-13
A	EP 1002744 A1 (WESTVACO CORPORATION), 24 May 2000 (24.05.00), figures 1-11, abstract --	1-13



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

12 February 2002

Date of mailing of the international search report

18-02-2002

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 01/02496

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4120400 A (KOTYUK), 17 October 1978 (17.10.78), figures 1-24, abstract --	1-13
A	US 4401210 A (ANJOU), 30 August 1983 (30.08.83), figures 1-6 --	1-13
A	US 4848582 A (LEVASSEUR ET AL.), 18 July 1989 (18.07.89), figure 11, abstract --	1-13
A	US 5421452 A (HYBISKE), 6 June 1995 (06.06.95), figures 1-8 -- -----	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

28/01/02

International application No.

PCT/SE 01/02496

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
SE 509466 C2	13/10/97	AU 718590 B AU 2415697 A BR 9708758 A CA 2250793 A CN 1215375 A EE 9800327 A EP 0929476 A EP 0963254 A,B HU 9901578 A JP 2000505403 T LV 12238 A,B NO 984607 A NZ 332114 A PL 329189 A SE 9601380 A TR 9801975 T US 6032795 A WO 9738919 A ZA 9702872 A	20/04/00 07/11/97 03/08/99 23/10/97 28/04/99 15/04/99 21/07/99 15/12/99 30/08/99 09/05/00 20/03/99 05/10/98 28/05/99 15/03/99 13/10/97 00/00/00 07/03/00 23/10/97 18/11/97
FR 2649672 A1	18/01/91	NONE	
EP 0031547 A1	08/07/81	CA 1148117 A DE 2952616 A JP 56151662 A US 4535890 A	14/06/83 02/07/81 24/11/81 20/08/85
EP 1002744 A1	24/05/00	BR 9904125 A JP 2000085744 A PL 335473 A US 6047829 A	12/09/00 28/03/00 27/03/00 11/04/00
US 4120400 A	17/10/78	US 4192422 A	11/03/80
US 4401210 A	30/08/83	AT 14557 T AU 546683 B AU 7796381 A BR 8107761 A CA 1162886 A DE 3171617 D DK 150456 B,C DK 524381 A EP 0053593 A,B FI 70850 B,C FI 813753 A JP 57114468 A NO 157763 B,C NO 814036 A SE 433341 B,C SE 8008311 A	15/08/85 12/09/85 03/06/82 31/08/82 28/02/84 00/00/00 02/03/87 28/05/82 09/06/82 18/07/86 28/05/82 16/07/82 08/02/88 28/05/82 21/05/84 28/05/82

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

28/01/02

International application No.

PCT/SE 01/02496

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	4848582	A	18/07/89	CA	1294583 A	21/01/92
				CN	1016767 B	27/05/92
				CN	1032646 A	03/05/89
				EP	0312669 A	26/04/89
				FR	2622173 A,B	28/04/89
				JP	1111675 A	28/04/89
-----						
US	5421452	A	06/06/95	NONE		
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